

IAP7 Rec'd PCT/PTO 30 DEC 2005

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 78199/00002
INTERNATIONAL APPLICATION NO. PCT/CN2003/000862	INTERNATIONAL FILING DATE 16 OCTOBER 2003	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/563144
TITLE OF INVENTION <p style="text-align: center;">A MULTIPHASE REACTOR</p>		
APPLICANT(S) FOR DO/EO/US <p style="text-align: center;">Hanxiang SHI</p>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input checked="" type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input checked="" type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 2em; font-weight: bold; text-align: center;">10/563144</div>		INTERNATIONAL APPLICATION NO. PCT/CN2003/000862		ATTORNEY'S DOCKET NUMBER 78199/00002	
20. Other items or information: Copy of W02005/000451; Copy of International Search Report; Letter for filing without Declaration; Post card					
The following fees have been submitted				CALCULATIONS PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300				\$ \$300.00	
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200				\$ \$200.00	
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500				\$ \$400.00	
TOTAL OF 21, 22 and 23 =				\$900.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
13 - 100 =	0 /50 =	0	x \$250	\$ \$0.00	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	7 - 20 =	0	x \$ 50	\$ \$0.00	
Independent claims	1 - 3 =	0	x \$ 200	\$ \$0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360		
TOTAL OF ABOVE CALCULATIONS =				\$900.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
SUBTOTAL =				\$1,030.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$ \$130.00	
TOTAL NATIONAL FEE =				\$1,160.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ \$0.00	
TOTAL FEES ENCLOSED =				\$1,160.00	
				Amount to be refunded:	
				\$	
				Amount to be charged	
				\$	

10/563144

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- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit
Account No. 50-0902 (78199/00002). A duplicate copy of this form is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not
be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed
and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Susan L. Mizer
Tucker Ellis & West LLP
1150 Huntington Bldg.
925 Euclid Avenue
Cleveland, Ohio 44115-1475

SIGNATURE

Christian R. Drago

NAME

52,472

REGISTRATION NUMBER

10/563144

PATENT

Docket No. 78199/00002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
30 DEC 2005

IN THE APPLICATION OF : SHI, Hanxiang
FOR : A MULTIPHASE REACTOR
INT'L APPLICATION NO. : PCT/CN2003/000862
INT'L FILING DATE : 16 OCTOBER 2003
PRIORITY DATE CLAIMED : 30 JUNE 2003
U.S. SERIAL NO. : UNKNOWN
U.S. FILING DATE : UNKNOWN
EXAMINER : UNKNOWN
ART UNIT : UNKNOWN
CUSTOMER NO. : 23380

LETTER

Mail Stop PCT
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The attached application is submitted herewith absent a Declaration and Power of Attorney forms in accordance with 37 CFR § 1.53(b). Enclosed is a Preliminary Amendment to eliminate multiple dependencies in a claim, a PCT International Search Report and a PCT International Preliminary Examination Report. The inventor is as follows:

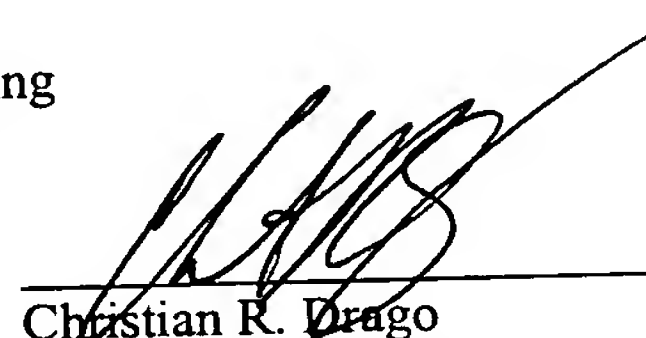
Hanxiang SHI
Shijiacan, Zonghan Street
Cixi, Zhejiang Province, 315301
CHINA

This patent application claims priority of PCT Patent Application No. PCT/CN2003/000862 filed October 16, 2003.

It is requested that the Patent Office direct all correspondence regarding this application to:

Susan L. Mizer
Tucker Ellis & West LLP
925 Euclid Avenue
1150 Huntington Building
Cleveland, Ohio 44115

Date: December 30, 2005


Christian R. Drago
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Phone: 216/696-4943
Facsimile: 216/592-5009

10/563144

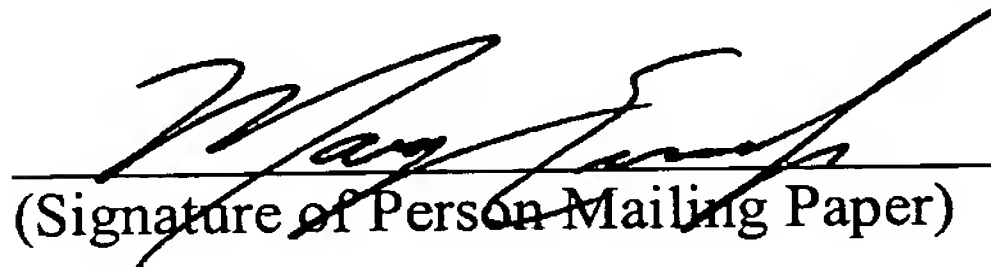
IAP20 REC'D PTO 30 DEC 2005

MAIL CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that the attached US National Phase Patent Application (along with any other paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on December 30, 2005 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV 515354224 US addressed to the: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Mary Erne, Jr.

(Typed or Printed Name of Person Mailing Paper)


(Signature of Person Mailing Paper)

Docket No.: 78199/00002